

## **1800 Series**

Camera-mount UHF Wireless  
Microphone Systems (single-channel)

wireless  
wireless  
wireless  
wireless  
wireless

**ATW-1811** UniPak® Body-pack Transmitter System

**ATW-1812** Plug-on Transmitter System

**ATW-1813** Plug-on and Body-pack Transmitter System

*Set-up and Operation*

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

This device complies with INDUSTRY CANADA R.S.S. 210, en conformité avec IC: RSS-210/CNR210.

Operation is subject to the following conditions: 1) This device may not cause harmful interference and 2) this device must accept any interference received, including interference which may cause undesired operation. Changes or modifications not expressly approved by Audio-Technica could void your authority to operate this equipment.

**Notice to individuals with implanted cardiac pacemakers or AICD devices:**

Any source of RF (radio frequency) energy may interfere with normal functioning of the implanted device. All wireless microphones have low-power transmitters (less than 0.05 watts output) which are unlikely to cause difficulty, especially if they are at least a few inches away. However, since a "body-pack" mic transmitter typically is placed against the body, we suggest attaching it at the belt, rather than in a shirt pocket where it may be immediately adjacent to the medical device. Note also that any medical-device disruption will cease when the RF transmitting source is turned off. Please contact your physician or medical-device provider if you have any questions, or experience any problems with the use of this or any other RF equipment.

**CAUTION!** The circuits inside the receiver and transmitter have been precisely adjusted for optimum performance and compliance with federal regulations. Do not attempt to open the receiver or transmitter. To do so will void the warranty, and may cause improper operation.

**Warning:** To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

**Attention:** Pour prévenir feu ou choc électrique, ne pas exposer l'appareil à la pluie ou à l'humidité.

## About RF Interference

Please note that wireless frequencies are shared with other radio services. According to Federal Communications Commission regulations, "Wireless microphone operations are unprotected from interference from other licensed operations in the band. If any interference is received by any Government or non-Government operation, the wireless microphone must cease operation..."

If you need help with operation or frequency selection, please contact your local dealer or Audio-Technica. Extensive wireless information also is available at [www.audio-technica.com](http://www.audio-technica.com).

## Contents

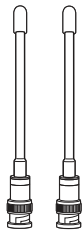
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## 1800 Series Components (single-channel)

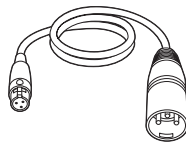
### Receiver and Included Components/Accessories



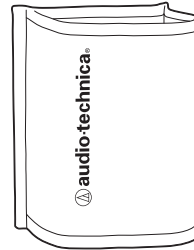
**ATW-R1810**  
Single-channel receiver



Two detachable  
antennas



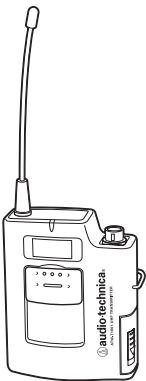
18" output cable,  
TA3F to XLRM



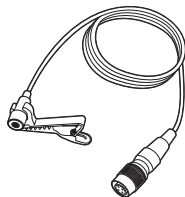
Pouch with belt clip  
(holds receiver)

**Note: All model numbers have an additional letter at the end to indicate frequency band.**

### Transmitters



**ATW-T1801**  
UniPak® transmitter with included omnidirectional lavalier microphone

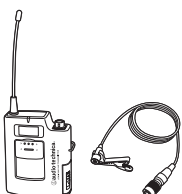
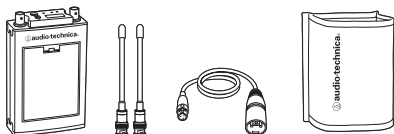


**ATW-T1802**  
Plug-on transmitter

### System Configurations

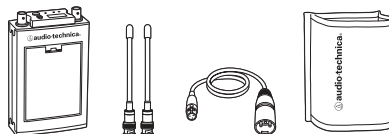
#### ATW-1811

Camera-mount UHF Wireless  
Microphone System (single-channel)  
with Body-pack Transmitter



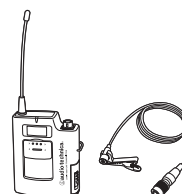
#### ATW-1812

Camera-mount UHF Wireless  
Microphone System (single-channel)  
with Plug-on Transmitter



#### ATW-1813

Camera-mount UHF Wireless  
Microphone System (single-channel)  
with Body-pack and Plug-on Transmitters



## **System Features (single-channel)**

- **True Diversity operation for resistance to multi-path interference and dropouts**
- **UHF reception with 996 frequencies selectable in 25 kHz steps**
- **Automatic frequency scanning for easy selection of open channels**
- **Tone Lock™ squelch system eliminates interference when transmitter is off**
- **Balanced output on receiver allows connection to a balanced microphone-level input on camera, mixer or amplifier**
- **Headphone monitor output with independent level control**
- **Battery fuel-level indicators on transmitters and receiver**
- **Soft-touch controls for easy frequency selection**
- **LCD frequency and battery status display with backlight on receiver and transmitters**
- **Antenna and AF Peak LED indicators**
- **Compact receiver ideal for on-camera use**
- **Transmitters operate in low or high transmission modes to conserve battery life/maximize power**
- **Easy, user-friendly operation**
- **Clear, natural sound quality**
- **Powered by AA batteries or external 12V DC power (not included)**
- **System components of the 1800 Series and 3000 Series UHF Wireless Systems can be used interchangeably**

## Quick Overview of System Operation

**Thank you for purchasing this Audio-Technica 1800 Series Single-channel Camera-mount UHF Wireless Microphone System.** All 1800 Series Single-channel systems are designed primarily to be used with video cameras, with the ATW-R1810 Receiver mounted on a camera and connected to the camera's audio input; they may also be used with other components equipped with microphone-level input.

First, insert batteries. (See *Receiver Battery Installation*, page 8.) **Note: The ATW-R1810 Single-channel Receiver also functions without batteries if connected to an external power supply (12V DC source, 500 mA nominal current, not included).**

Next, attach the antennas to the antenna input jacks, and mount the ATW-R1810 Receiver to your camera (mounting hardware not included); or use the included pouch with belt clip to attach the ATW-R1810 to your belt. Connect the output cable to the ATW-R1810 and your video camera (or audio mixer). (See *Output callout*, page 7).

Turn the ATW-R1810 on: Press and hold the Power/Set button until the Power LED lights red.

Select an operating frequency. (See *Selecting Frequencies on your Receiver*, page 9.)

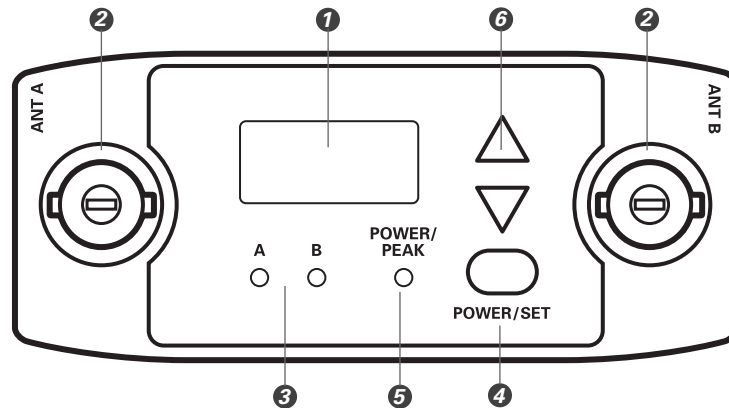
**NOTE: Transmitter-Receiver pairs must be set to identical frequencies.**

**IF your system is equipped with a UniPak® Body-pack Transmitter and lavalier microphone:**

Plug the included lavalier microphone into the UniPak® body-pack transmitter and position microphone on your subject about six inches below the chin. Anticipate movements that may cause the microphone to rub against or be covered by clothing, and position the microphone to avoid it. Turn the power on (See *Operating the Transmitter*, page 11). Select a frequency and choose other settings. (See *Operating the Transmitter and How to Set Frequencies on your Transmitter*, page 11.)

**IF your system is equipped with a Plug-on Transmitter:** Attach a microphone (dynamic or condenser) to the Plug-on Transmitter's input connector (See *Microphone Input*, page 10). Turn the power on (See *Operating the Transmitter*, page 11). Select a frequency and choose other settings. (See *Operating the Transmitter and How to Set Frequencies on your Transmitter*, page 11.)

## ATW-R1810 Single-channel Receiver Controls (front panel)



**LCD 1** Liquid Crystal Display shows battery status and frequency settings.

**Antenna Input Jacks 2** BNC-type antenna connectors. Attach the antennas to the antenna input jacks. Make certain that during operation there is a clear open-air path between the receiver antennas and the transmitters.

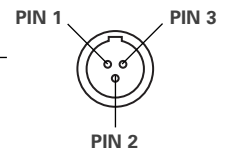
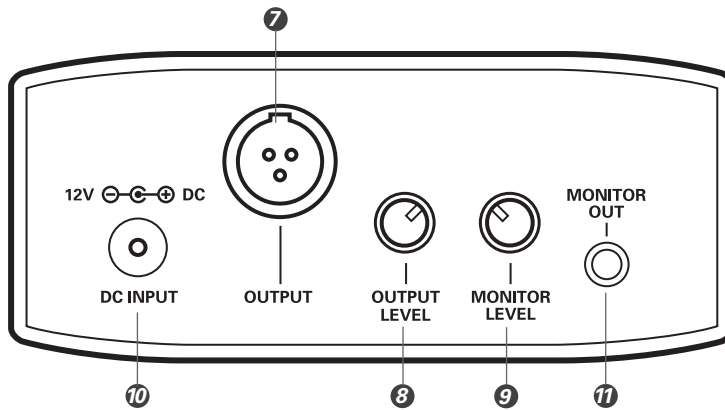
**Diversity Indicators 3** True Diversity operation: two antennas feed two completely independent RF sections on the same frequency; automatic logic circuitry selects the superior signal.

Diversity Indicators A and B show which tuner has the better reception and is in operation.

**Power / Set Button 4** Turns the unit on and off. Use with the Up/Down arrows to choose operating frequencies manually or automatically (using your choice of three automatic scan groups).

**Power/Peak LED 5** Indicates when the unit is on. Also indicates receiver overload by turning off; too much signal will cause blinking LED (off during peaks). To correct overload, adjust audio gain on transmitter. (See *Audio Input Level (Gain) Adjustments on your transmitter*, page 12.)

**Up/Down Arrows 6** Press Up or Down arrows, in conjunction with the Power/Set button, to choose operating frequencies manually or automatically (using your choice of three automatic scan groups).

**(rear panel)**

Balanced Audio Output Jack: TA3M-type connector. Pin 1: ground (shield); Pin 2: "audio +"; **7 Output**  
 Pin 3: "audio -". A standard 2-conductor shielded cable can be used to connect the receiver output to a balanced microphone-level input on a camera, mixer or integrated amplifier.

Controls the output level of the receiver. Turn clockwise to increase output level.

**8 Receiver Level Control**

The level control (volume control) for headphones is independent of other level controls. Turn to the right to increase output (turn up the volume).

**9 Monitor Level Control**

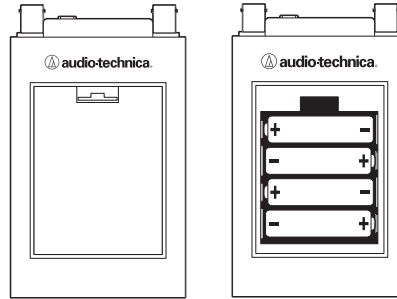
You may connect the unit to an external power supply (12V DC source, 500 mA nominal current, not included.)

**10 DC Input**

3.5 mm TRS headphone jack.

**11 Monitor Output**

## ATW-R1810 Single-channel Receiver Batteries

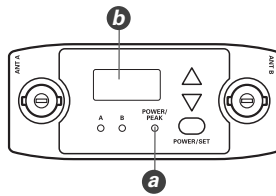


**Battery Selection** Each ATW-R1810 Single-channel Receiver uses four 1.5V AA batteries, not included. Alkaline type is recommended. Always replace all batteries. Make certain the receiver power is Off before replacing batteries. **Note: The ATW-R1810 receiver also functions without batteries if connected to an external power supply (12V DC source, 500 mA nominal current, not included).**

**Battery Installation**

1. Open the battery compartment door by pushing the catch back.
2. Observe correct polarity as marked and carefully insert four fresh 1.5V AA alkaline batteries (*see above*).
3. Replace the door, making certain the latch clicks securely in place.

**Battery Condition Indicator** After the batteries are installed, turn the power on. The small red power-on LED (*see a at left*) should light and the LCD window should come on. If this does not happen, the batteries are installed incorrectly or they are dead.



The receiver's "fuel gauge" battery indicator (*see b at left*) displays a maximum of four bar segments. When LCD flashes LOW.BAT, the batteries should be replaced immediately to ensure continued operation.



## Operating the Receiver

**NOTE: Transmitter-Receiver pairs must be set to identical frequencies.**

Overview...

1. To turn the receiver on, press and hold the Power/Set button until the Power LED lights, and the LCD window comes on (about 2-3 seconds). The operating frequency will show in the window after the power-up sequence.
2. Press the Power/Set button to enter the Frequency Selection Menu mode; the word "MENU" will appear in the upper left corner of the LCD window.
3. Use the Up/Down arrows to cycle through functions:
  - first arrow up is Automatic Scan Group 1;
  - second arrow up is Automatic Scan Group 2;
  - third arrow up is Automatic Scan Group 3;
  - fourth arrow up is Quit, allowing exit from Menu mode.

### ***Selecting Frequencies on your Receiver***

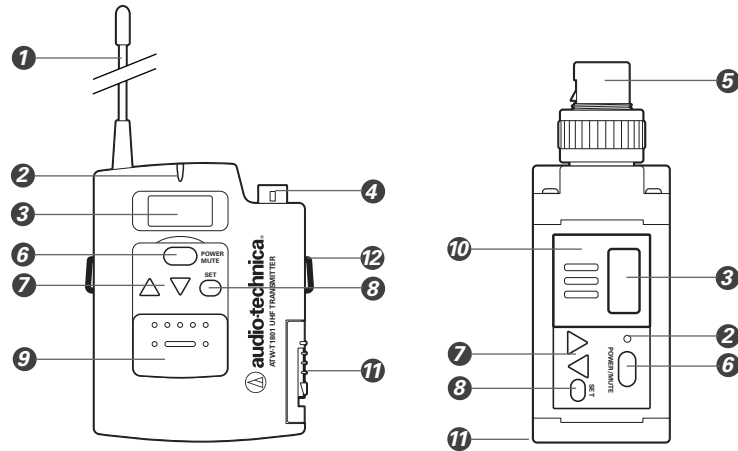
1. Press Power/Set button to enter Menu mode. The word "MENU" will appear in the upper left corner of the LCD window. The current frequency will be displayed in the LCD window. Press Power/Set button and frequency will begin to flash and the word "EDIT" will appear above the frequency display; use up and down arrows to adjust the frequency. Frequency changes in 25k steps. To increase scroll speed, hold the up or down arrow for more than 4 seconds.
2. When you arrive at desired frequency, press and hold the Power/Set button until the word "STORED" appears. Frequency (which appears on the screen) is now set.
3. To "back out" of the Manual Frequency Set mode without making a frequency choice, simply press the Power/Set button once to exit the menu. The word "ESCAPE" will appear in the window, and no changes in frequency setting will be made; the receiver's audio output will again be enabled.

### ***Setting Receiver Frequency Manually***

1. Press the Power/Set button to enter the Frequency Selection Menu mode; the word "Menu" will appear in the upper left corner of the LCD window.
2. Use the Up or Down arrow to reach Scan 1, Scan 2, or Scan 3. Press the Power/Set button once to select one of these three Scan groups. The word "SCAN1", "SCAN2" or "SCAN3" will flash in the LCD window.
3. Press the Up or Down arrow to begin the scan. Press the Up arrow to scan up from the lowest frequency in the group; press the Down arrow to scan down from the highest frequency in the group
4. The first available frequency will flash in the LCD window. To activate this frequency selection, press and hold the Power/Set button until the word "STORED" appears in the LCD window.
5. If you do not wish to use the frequency found, you may press the Up or Down arrow. The Up arrow with scan upwards, the Down arrow will scan downwards, from the frequency you are on.
6. To "back out" without making a frequency choice, simply press the Power/Set button once to exit the menu. The word "ESCAPE" will appear in the window, and no changes in frequency setting will be made; the receiver's audio output will again be enabled.

### ***Using the Automatic Scan Function to Set Receiver Frequency***

## ATW-T1801 UniPak® Body-pack & ATW-T1802 Plug-on Transmitter Controls



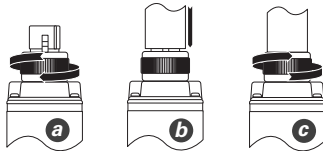
**Antenna 1** The ATW-T1801 UniPak® body-pack transmitter includes a field-replaceable flexible antenna. For best results, allow the antenna to hang freely and full length from the bottom of the transmitter. If the received signal is marginal, experiment with different transmitter positions or try repositioning the receiver. Since the transmitter antenna simply screws in, check to make certain it is snugly attached (finger-tight). **Do not change the length of the transmitting antenna.**

**Power-on LED 2** Green light indicates power is on and un-muted; red light indicates that audio is muted. The light will blink when the batteries are low.

**LCD 3** Liquid Crystal Display presents setup and operating information. The LCD in the transmitters is designed for greatest contrast and best viewing with the window rotated somewhat away from the viewer (about 30 degrees), not straight-on, for a more convenient holding/viewing position. The display is illuminated with a backlight when you press Set to access transmitter functions. The backlight will automatically turn off within a set period of time.

**Audio Input Jack 4** Connect an audio input device (microphone or guitar cable) to the audio input jack on the bottom of the ATW-T1801 UniPak® Body-pack Transmitter. A number of Audio-Technica professional microphones and cables are available separately, pre-terminated with a compatible input connector (see page 14). The cable connector latches automatically when inserted into the transmitter jack. To unlatch and remove the connector, pull up on the connector's knurled metal collar.

**Microphone Input 5** The ATW-T1802 plug-on transmitter has a 3-pin XLR-type input connector with a locking collar. Use either a dynamic or a condenser microphone. The transmitter provides power to condenser microphones rated to operate on 12V phantom power or less. To attach the microphone, rotate the threaded locking collar fully clockwise ("down") until it reaches the transmitter housing (see **a at right**). Press the microphone and transmitter together (see **b at right**). Rotate the threaded collar "up" until it is firmly against the end of the mic (see **c at right**). Make certain the mic is securely attached before use. To detach the microphone, reverse the steps above. Always loosen the threaded collar fully before attempting to disconnect the mic.



**Power/Mute Button 6** For on/off and mute functions.

**Up/Down Arrows 7** Press Up or Down arrows, in conjunction with the Set button, to choose operating frequencies and access transmitter functions.

**Set Button 8** Use in conjunction with the Up/Down arrows, to choose operating frequencies and access transmitter functions.

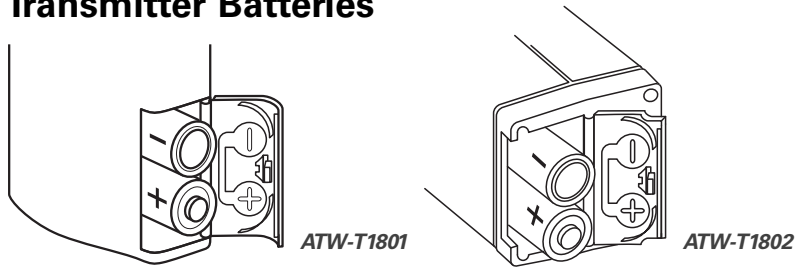
**Sliding Control Cover 9 (3-position)** This 3-position sliding cover on the body-pack transmitter's control panel prevents accidental shut-off or channel-switching.

**Sliding Control Cover 10** This sliding cover on the plug-on transmitter's control panel helps to prevent accidental shut-off or channel-switching.

**Battery Door 11** Open by sliding the catch down (on body-pack) or pushing in direction of arrow (on plug-on transmitter).

**Mounting Clip 12** The ATW-T1801 UniPak® transmitter's mounting clip may be installed with the case positioned either "up" or "down," depending upon which is preferred for the application. To turn the clip around, spring the ends of the clip out of the two holes on the sides of the transmitter case and reinstall it facing in the opposite direction.

## Transmitter Batteries



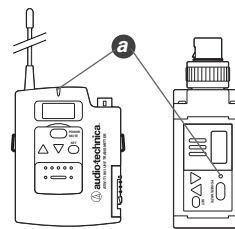
Each transmitter uses two 1.5V AA batteries, not included. Alkaline type is recommended. **Battery Selection**  
Always replace both batteries. Make certain the transmitter power is Off before replacing batteries.

1. Open the battery compartment door by sliding the catch down (on body-pack) or pushing in direction of arrow (on plug-on transmitter).
2. Observe correct polarity as marked on the metal contacts on the door and carefully insert two fresh 1.5V AA alkaline batteries.
3. Close the door, making certain the latch clicks securely in place.

### Transmitter Battery Installation

After the batteries are installed, turn the power on by pressing and holding the Power/Mute button. The small power-on LED (see **a** at left) should light green and the LCD window should come on. If this does not happen, the batteries are installed incorrectly or they are depleted. The transmitter's "fuel gauge" battery indicator in the LCD displays a maximum of four bar segments. When it flashes "LOW.BAT," the batteries should be replaced immediately to ensure continued operation. (Additionally, the power-on LED will flash when the batteries are low.)

### Battery Condition



## Operating the Transmitter

To turn the transmitter on, press and hold the Power/Mute button until the power indicator lights green, and the LCD window comes on (about 1-2 seconds). The operating frequency will show in the window after the power-up sequence.

### Turning your Transmitter On & Off

To turn the transmitter off, press and hold the Power/Mute button again, until the power indicator and the LCD window are extinguished (about 1-2 seconds). The LCD window will show "PWR.OFF" before shutdown.

**NOTE: Set your transmitter and receiver to identical frequencies.**

### How to Set Frequencies on your Transmitter

1. Turn transmitter on.
2. Press the Set button once and the small word "MENU" will appear above the frequency.
3. Press the Set button again and the small flashing word "EDIT" will appear to the right of "MENU."
4. Use the Up/Down arrows to change the transmitter frequency. Press either arrow for 25 kHz steps, or hold down either arrow for rapid cycling through the range. Frequencies "wrap around" when the top or bottom of the band is reached. Select the exact frequency displayed on the receiver.
5. To activate this frequency selection, press and hold the Set button until the word "STORED" appears in the transmitter's window. (If you do not wish to complete this selection, just press the Set button once: the word "ESCAPE" will appear briefly in the window and the transmitter will return to the Menu mode.)
6. When finished entering a frequency, press the Up arrow once to move to "QUIT." Then press the Set button once to exit the menu. The word "MENU" in the transmitter window will go off, indicating the return to normal operation.

### How to Access & Use the Function Menu on your Transmitter

1. Turn transmitter on.
2. Press the Set button once; the small word "MENU" will appear above the frequency.
3. When in the Menu mode, use the Up and Down arrows to cycle through the following functions:
  - Frequency
  - RF Power
  - Audio Input Level
  - Power/Mute Locks
  - Input Select (body-pack only)
  - Reset to Defaults
  - Quit (exit menu)
4. To make a change in the default setting:
  - Press Set button once;
  - Press Up or Down arrow until you reach desired setting;
  - Press and hold Set button until the word "STORED" appears in the LCD window.
  - (If you do not wish to complete this selection, just press the Set button once: the word "ESCAPE" will appear briefly in the window and the transmitter will return to the Menu mode.)

<i>Transmitter Functions</i>	<b>Function Menu</b>	<b>Default Setting</b>	<b>Choices (Edit)</b>	<b>Wrap-around*</b>
	Frequency	Lowest in band	996 frequencies (25 kHz steps)	Yes
	RF Power	RF LOW	RF LOW, RF HI	Yes
	Audio Input Level	+6 dB	-6 dB, 0 dB, +6 dB, +12 dB, +18	No
	Power/Mute Locks	NO.LOC	NO.LOC, ALL.LOC, MUT.LOC, PWR.LOC	Yes
	Input Select**	MIC	MIC, INST	Yes
	Reset to Defaults	PRESET	See <i>Restore Default Settings</i> , page 13	–
	Quit	QUIT	Press Set to exit	–

\* Continue in the same Up/Down direction and choices “wrap around” to the other end of the range.

\*\* On UniPak® transmitter only

**RF Power Adjustments on your Transmitter** RF power may be set to “RF HI” (30 mW nominal) or “RF LOW” (10 mW nominal) through the function menu. The default setting is “RF LOW”. While the High setting normally provides maximum operating range, the Low setting will help extend battery life. The Low setting may also be preferred in multichannel systems, or when operating very close to the receiver, to reduce the possibility of interference or receiver RF overload.

**Audio Input Level (Gain) Adjustments on your Transmitter** Correct adjustment of transmitter audio input, receiver audio output, and mixer/amplifier input and output levels is important for best performance.

A 5-position audio input gain setting, selected through the function menu, allows you to match the audio input level to the transmitter for best modulation with minimum distortion. The choices are +18, +12 dB, +6 dB, 0 dB and -6 dB. The default value is +6 dB. Select the highest setting that does not result in over-modulation with the highest audio/instrument input levels (an AF indication on the receiver no higher than “0”).

**Using the Mute and Un-Mute Functions on your Transmitter** When the transmitter is muted, it produces RF with no audio. When the transmitter is un-muted, it produces both RF and audio. To mute the transmitter (cut off the audio, but continue the RF output), press and release the Power/Mute button once. The word “MUTE” will appear in the LCD window, just below the frequency, and the Power-on LED will turn red. To un-mute the transmitter (restore the audio), press and release the Power/Mute button once again. The “MUTE” will disappear from the LCD window, and the Power-on LED will turn green.

**Power/Mute Locks** The Power/Mute button can be programmed (through the function menu): power can be locked On; Mute can be locked either On or Off.

<b>Setting</b>	<b>Description</b>
NO.LOC	The Power and Mute functions operate normally.
ALL.LOC	Both the Power and Mute functions are locked into their status as of the time “ALL.LOC” is applied. (Power On, and Mute either On or Off.) <b>Note: “ALL.LOC” must be re-accessed and the setting changed to turn the transmitter off.</b>
MUT.LOC	In “MUT.LOC” mode, the audio cannot be muted. The Power functioning is unaffected. (If “MUT.LOC” is applied while the transmitter is muted, pressing the Power/Mute button once will return to un-muted operation; thereafter the Mute function is disabled until the setting is changed again.)
PWR.LOC	Power is locked On as of the time “PWR.LOC” is applied. The Mute functioning is unaffected. <b>Note: When in the “PWR.LOC” mode, the transmitter may be turned off by: (1) Re-accessing the .LOC Menu and changing the setting, or (2) Removing and re-installing the batteries. When the transmitter is turned on again, it will power-up in the “NO.LOC” mode.</b> (Only the “PWR.LOC” function will change when batteries are removed; all other settings remain stored in memory.)

If an attempt is made to take an action that currently is locked out, the LCD will display “LOC.KED” briefly, then return to its previously-displayed contents.

**Audio Input Selector** The UniPak® body-pack transmitter provides input connections for both low-impedance (Lo-Z) microphones and high-impedance (Hi-Z) instruments. A wide range of Audio-Technica Wireless Essentials™ microphones and cables are available pre-terminated with the appropriate professional latching connector (*see page 13*).

Select the desired input – microphone or instrument – through the function menu; “MIC” or “INST” will show in the LCD window, just below the frequency.

(continued on page 13)

## Operating the Transmitter (continued)

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1. A "PRESET" selection in the menu allows you to reset all transmitter functions to their *Restore Default Settings* factory-default values.
2. Press the Set button once to move to Menu mode.
3. Press the Up arrow twice to move to "PRESET" in the LCD window.
4. Press the Set button once and "LOAD" will appear in the LCD.
5. Press and hold the Set button until "DEF" appears in the LCD.
6. Press and hold the Set button until "LOADED" appears briefly in the LCD. The window will then revert to "PRESET."
7. Press the Down arrow once to move to "QUIT."
8. Press the Set button once to exit the Menu mode and return to normal operation, with all factory-default settings restored.

## Tips for Best Results

1. Use only fresh alkaline batteries. Always replace all batteries.  
Do not use "general purpose" (carbon-zinc) batteries.
2. Position the receiver so that it has the fewest possible obstructions between it and the normal location of the transmitters. Line-of-sight is best.
3. The transmitters and the receiver should be as close together as conveniently possible, but no closer together than three feet.
4. The receiver antennas should be in the open and away from any metal.
5. Each transmitter-receiver pair must be set to the same frequency.
6. When using multiple systems, only one transmitter on a given frequency should be "on" at a time.
7. If the "Out Level" of the receiver is set too high, it may over-drive the input of the camera/mixer or clip the output of the receiver, causing distortion. Conversely, if the receiver output is set too low, the overall signal-to-noise ratio of the system may be reduced.
8. You need to change channels 1) when a strong interference signal is received, 2) when the channel breaks down, or 3) during multiple-system operation in order to select an interference-free channel. Always turn the units off before changing frequencies.
9. Turn the receiver and transmitter off when not in use. Remove the batteries during long-term storage.



## Specifications†

UHF Operating Frequencies	
Band C:	541.500 to 566.375 MHz
Band D:	655.500 to 680.375 MHz
Number of Operating Frequencies	996 total per band (25 kHz increments)
Frequency Stability	±0.005%, Phase Lock Loop frequency control
Modulation Mode	FM
Normal Deviation	±10 kHz
Operating Range	100 m (300') typical
Operating Temperature Range	23° F (-5° C) to 113° F (45° C)
Frequency Response	70 Hz to 15 kHz

### Overall System

Receiving System	Dual independent RF sections, automatic-switching diversity
Image Rejection	>50 dB typical
Signal-to-Noise Ratio	104 dB at 30 kHz deviation (A-weighted), maximum modulation 37 kHz
Total Harmonic Distortion	<1% (±10 kHz deviation at 1 kHz)
Sensitivity	25 dB $\mu$ V, (S/N 60 dB at 5 kHz deviation, A-weighted)
Audio Output (balanced)	27 mV (at 1 kHz, ±5 kHz deviation)
Output Connector	3-pin mini XLR (TA3M-type)
Monitor Headphone Output (typical)	35 mW max., 32 ohm load
Monitor Headphone Jack	3.5 mm TRS, signals on both Tip and Ring
External Power Requirements	12V DC nominal, 500 mA
Batteries (not included)	Four 15V AA alkaline
Current Consumption (battery)	315 mA typical
Battery Life	10 hours typical, depending on battery type and use pattern
Dimensions	75.0 mm (2.95") W x 125.0 mm (4.92") H x 32.0 mm (1.25") D
Net Weight (without batteries)	300 grams (10.5 oz)
Accessories Included	Two flexible UHF antennas; one 18" TA3F to XLRM output cable; belt pouch

### ATW-R1810 Single-channel Receiver



RF Power Output	High: 30 mW; Low: 10 mW, nominal
Spurious Emissions	Under federal regulations
Dynamic Range	>105 dB, A-weighted
Input Connections	High impedance, low impedance, bias
Batteries (not included)	Two 15V AA alkaline
Current Consumption	High: 180 mA; Low: 160 mA, typical
Battery Life	Approximately 6 hours (High); 8 hours (Low), depending on battery type and use pattern
Dimensions	66.0 mm (2.60") W x 87.0 mm (3.43") H x 24.0 mm (0.94") D
Net Weight (without batteries)	80 grams (2.8 oz)

### ATW-T1801 UniPak® Body-pack Transmitter



RF Power Output	High: 30 mW; Low: 10 mW, nominal
Spurious Emissions	Under federal regulations
Dynamic Range	>105 dB, A-weighted
Input Connector	3-pin locking XLRF-type
Microphone Power	Provides power to condenser microphones rated to operate on 12V phantom power or less.
Batteries (not included)	Two 15V AA alkaline
Current Consumption	High: 180 mA; Low: 160 mA, typical
Battery Life	Approximately 6 hours (High); 8 hours (Low), depending on battery type and use pattern
Dimensions	40.0 mm (1.57") x 111.0 mm (4.37") x 40.0 mm (1.57")
Net Weight (without batteries)	199 grams (70 oz)

### ATW-T1802 Plug-on Transmitter



† Specifications are subject to change without notice.



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